SCHOOL OF MEDICINE SAINT LOUIS (10)

DEPARTMENT OF BACTERIOLOGY AND IMMUNOLOGY

EUCLID AVENUE AND KINGSHIGHWAY

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Dear Lederberg,

Sl and S2 Boivin are sensitive to T2, 3, 4, (6) 7 and a phage "Bordet small" among 13 tested. The tests were done with undiluted stocks, by the method described in Genetics 31: 620. I recommend reading results at about 8 hours. None of the tests distinguished between S1 and S2. All the active phages showed up secondary colonies, so you should be able to get a number of resistant mutants without trouble.

I gave Sol the cultures.

Our work with the r locus is in a rather uncertain state. It is clear that no two independently arising r mutants are alike. Mixed infection with any mai pair gives a characteristic proportion of wild type. Waxkara and an approximately equal proportion of double mutant. If one used the proportion of wild type as a measure of "linkage", the r mutants fall into either one or two linkage groups: it is not yet clear which. Other mutations can also be located with repect to the r "map".

I would lake to hear what you find in the way of coupled transformation with S1-S2.

Best wishes

A D Hershey

Herston